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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/811,949	03/30/2004	Sok-San Kim	P57036	3104
7590 09/08/2005			EXAMINER	
Robert E. Bushnell Suite 300 1522 K Street, N.W. Washington, DC 20005-1202			A, MINH D	
			ART UNIT	PAPER NUMBER
			2821	

DATE MAILED: 09/08/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

AK

<b>Office Action Summary</b>	<b>Application No.</b> 10/811,949	<b>Applicant(s)</b> KIM ET AL.	
	<b>Examiner</b> Minh D. A	<b>Art Unit</b> 2821	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 30 March 2004.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1,2 and 15-18 is/are rejected.
- 7) ☒ Claim(s) 3-14 and 19-21 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## DETAILED ACTION

### *Claim Rejections - 35 USC § 103*

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-2, 15-16 and 17-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over by Irie et al (US 6,560,124) in view of Yamamoto (US 6,445,373).

Regarding claims 1 and 2, Irie discloses a plasma display comprising: a chassis (2) that is substantially rectangular having long sides (29 or element a) and short sides (29 or element b), a panel attachment face and a circuit board (9) attachment face; a plasma display panel mounted to the panel attachment face of the chassis base (2); at least one plasma display panel drive circuit board mounted to the circuit board attachment face of the chassis base; and long side reinforcing members (29) mounted on the circuit attachment face of the chassis base along a long side direction thereof, and short side reinforcing members (29) mounted on the circuit attachment face of the chassis base along a short side direction thereof and a second material from which the chassis base is made. See figures 2-6, col.5, lines 55-67 to col.7, lines 1-67.

Irie does not disclose that, at least one pair of said short side reinforcing members is made of a first material having a higher rigidity than a second material from which the chassis base is made. However, Yamamoto discloses at least one pair of

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said short side reinforcing members is made of a first material (steel) having a higher rigidity than a second material. See figures 3-4, col.5, lines 60-67 to col.6, lines 1-60.

It would have been an obvious to one of ordinary skill in the art at the time the invention was made to employ the first material (steel) such as that suggested by Yamamoto in the display device of Irie in order at least one pair of the short side reinforcing members is made of a first material having a higher rigidity than a second material to provide more sufficient strength for plasma display, because the steels are not expensive.

Regarding claims 15-16 and 18, Irie discloses the chassis base comprising: horizontal sides and vertical sides substantially forming a rectangular chassis base, a panel attachment face to which a plasma display panel is mounted; a circuit board attachment face to which at least one plasma display panel, drive circuit board is mounted; first reinforcing members mounted on the circuit attachment face and parallel to the horizontal sides of the chassis base; and second reinforcing members mounted on the circuit attachment face and parallel to the vertical sides of the chassis, wherein at least one pair of said second reinforcing members is made of a first material having a higher rigidity than a second material from which the chassis base is made and at least two pairs of said first reinforcing members and a remaining pair of second reinforcing members are made of said second material. See figures 3-4, col.5, lines 60-67 to col.6, lines 1-60.

Regarding claim 17, Iries discloses the second reinforcing members comprising: a pair of outer reinforcing members, each provided along respective ones of short side

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edges of the chassis base, a pair of inner reinforcing members, each provided inwardly a predetermined distance from respective ones of the outer reinforcing members. See figures 1-6.

***Allowable Subject Matter***

3. Claims 3-4, 5-7, 8-14, 17-18 and 19-21 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The prior art does not teach that, the short side reinforcing members comprising: a pair of outer reinforcing members, each provided along respective ones of short side edges of the chassis base; and a pair of inner reinforcing members, each provided inwardly a predetermined distance from respective ones of the outer reinforcing members recited in dependent claims 3 and 17.

Claims 4 and 18 would be allowed, since they are depending on claims 3 and 17.

The prior art does not teach that, the long side reinforcing members comprising: a pair of outer reinforcing members, each provided along respective ones of long side edges of the chassis base; a pair of inner reinforcing members, each provided inwardly a predetermined distance from respective ones of the outer reinforcing members', and a middle reinforcing member provided between the two first inner reinforcing members recited in dependent claims 5, 8 and 19.

Claims 6-7, 9-14 and 20-21 would be allowed, since they are depending on claims 5, 8 and 19.

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**Conclusion**

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Kim et al (US 6,882,108) and Yoshimura et al (US 6,847,415) are cited to show a plasma display device.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Minh A whose telephone number is (571) 272-1817. The examiner can normally be reached on M-F (5:30 –2:30 PM).

If attempts to reach the examiner by telephone is unsuccessful, the examiner's supervisor, Don Wong, can be reached on (571) 272-1834. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9306 for regular communications and (703) 872-9319 for final communications.


Any inquiry of a general nature or relating to the status of this application should be directed to the Technology Center receptionist whose telephone number is (571) 272-1553.

Examiner

Minh A

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9/6/05

  
Wilson Lee  
Primary Examiner